MATERIAL SAFETY DATA SHEET ISOMATE®-LBAM PLUS

CA. Reg. 53575-07008-EU

This is an unregistered product approved under section 18 of FIFRA For use in and around all agricultural crops, ornamental nurseries. business and residential outdoor areas, parks and forest

FOR USE IN THE STATE OF CALIFORNIA ONLY

PRODUCT AND COMPANY INFORMATION

Registrant: Pacific Biocontrol Corporation Emergency Telephone No.: 1-800-999-8805 or

14615 NE 13th Court, Suite A 1-360-571-2247

Vancouver, WA 98685 USA Manufacturer: Shin-Etsu Chemical Co., Ltd. - Japan

Product Name and Use: Isomate-LBAM Plus suppresses mating of light brown apple moth in all agricultural crops, ornamental nurseries, business and residential outdoor areas, wild lands, parks and forests.

Chemical Name: Insect pheromone mixture of components below:

COMPOSITION/INFORMATION ON INGREDIENTS

Components:	<u>Percent</u>	CAS No.	OSHA PEL and AGIH TLV
E-11-Tetradecen-1-yl Acetate	63.88	33189-72-9	Not applicable
(E,E)-9,11-Tetradecadien-1-yl Acetate	2.64	30562-09-5	Not applicable
Other Ingredients	33.48		Not applicable
D 16 D: 4 L:			

Pacific Biocontrol is unaware of any regulations, which define the ingredients as hazardous.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance and Odor: A brown plastic tube that looks like a very long twist tie. The pheromone formulation is within the dispenser and has an appearance of a colorless or light vellow transparent liquid with an oily-fatty. slightly waxy odor. The tube itself is odorless. Since the pheromone formulation is within the dispenser; the following characteristics are for the dispenser tube only:

Melting Point: 102-106°C Specific Gravity (Water = 1): 0.92g/ml

Boiling Point: (solid) Vapor Pressure: (solid) Evaporation Rate: .035mg/dispenser/hr maximum pH: 7 (the same as water)

Octanol/Water Partition Coefficient: Insoluble in water or octanol.

Solubility (Oil): Soluble in hydrocarbon and chlorohydrocarbon at high temperatures.

Net Contents: Foil packets at 400 dispensers per packet. One dispenser contains 0.188 gm of pheromone;

Total content of package: 75.21 gm.

FIRE FIREFIGHTING MEASURES

Flammability: Flammable **Explodability Characteristics: None**

Special Fire Fighting Procedures: If burned, stay out of smoke. Use standard fire fighting procedures.

Recommended Extinguishing Media: Foam, carbon dioxide, dry chemical and water fog

STABILITY AND REACTIVITY DATA

Stability: Stable against sunlight and hydrolysis exposing to water.

Incompatibility (Materials to Avoid) or Hazardous Decomposition Products: None

Corrosion or Dielectric Breakdown Voltage Characteristics: None

Oxidizing/Reducing Reaction: Stable Hazardous Polymerization: Will not occur.

ENVIROMENTAL HAZARD DATA

Precautions for terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of this product.

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HEALTH HAZARD DATA

Primary Dermal Irritation in Rabbits: Slight to

Dermal Maximization in Guinea Pigs: Not

moderate skin irritation

considered a skin sensitizer.

Ames Test: No mutagenicity

Acute Toxicity Data is determined by the pheromone active ingredient within the dispenser tube:

Acute Oral in Rats: LD₅₀>5000mg/kg

Acute Dermal in Rats: Dermal LD₅₀>2000mg/kg Primary Eyes Irritation in Rabbits: All eye irritation

cleared by 72 hours.

Acute Inhalation in Rats: Non toxic; LC₅₀>5.26mg/l

Troute initiation in rate. Non texto, 2000 0.20mg/

Health Hazard Categories: EPA Toxicity Category III – CAUTION

Chronic Toxicity Data: Not required; Adverse human effects are not expected.

OVER EXPOSURE CONTROLS

Human Health Effects or Risks from Over Exposure: Harmful if absorbed through skin. Causes moderate eye irritation.

Hazardous Effects from Over Exposure: No known hazardous side effects

Listed as Carcinogen by NTP, I.A.R.C. or OSHA: No

FIRST AID MEASURES

If on Skin or Clothing: Remove contaminated clothing. Immediately rinse skin for 15-20 minutes using plenty of water. If irritation persists, contact a poison control center or a doctor for treatment advice.

If in Eyes: Immediately, hold eyes open, slowly and gently rinse with water for 15-20 minutes. If wearing contact lenses, rinse eyes for 5 minutes, remove contact lenses, and continue rinsing. If irritation persists, contact a poison control center or a doctor for treatment advice.

If Calling or Going to Doctor or Poison Control Center for Treatment: Have the product container or label with you. You may also contact Pacific Biocontrol at 1-800-999-8805 for additional information.

PERSONAL PROTECTION

Respiratory Protection/Ventilation/Local Exhaust/Mechanical: Not necessary with this product Protective Clothing or Equipment: No special clothing required.

Work/Hygienic Practices: Avoid contact with skin, eyes or clothing. Do not touch eyes while handling or attaching the dispensers. After handling, wash thoroughly with soap and water and before eating, drinking, chewing gum or using tobacco.

HANDLING AND STORAGE PROCEDURES

Precautions to be Taken in Handling and Storage: Store original unopened package in a dry location at temperatures below 40°F. Only unopened or unbroken dispenser packages may be stored in cold storage facilities used for food products. Care must be taken to avoid contamination of food or feed items.

ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Collect dispensers, reseal packet with tape and place in original carton.

Waste Disposal Methods (Consult Federal, State or Local Regulations): Waste resulting from this product may be disposed of on site or at an approved waste disposal facility. Dispose of empty foil packet in the trash.

Notice: While this information and recommendations set forth are believed to be accurate, the Manufacturer makes no warranties, expressed or implied concerning this product or its use, which extend beyond the description on the label. Read label directions carefully.

Prepared by: Kathy Bolan, Registration Agent, Pacific Biocontrol

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